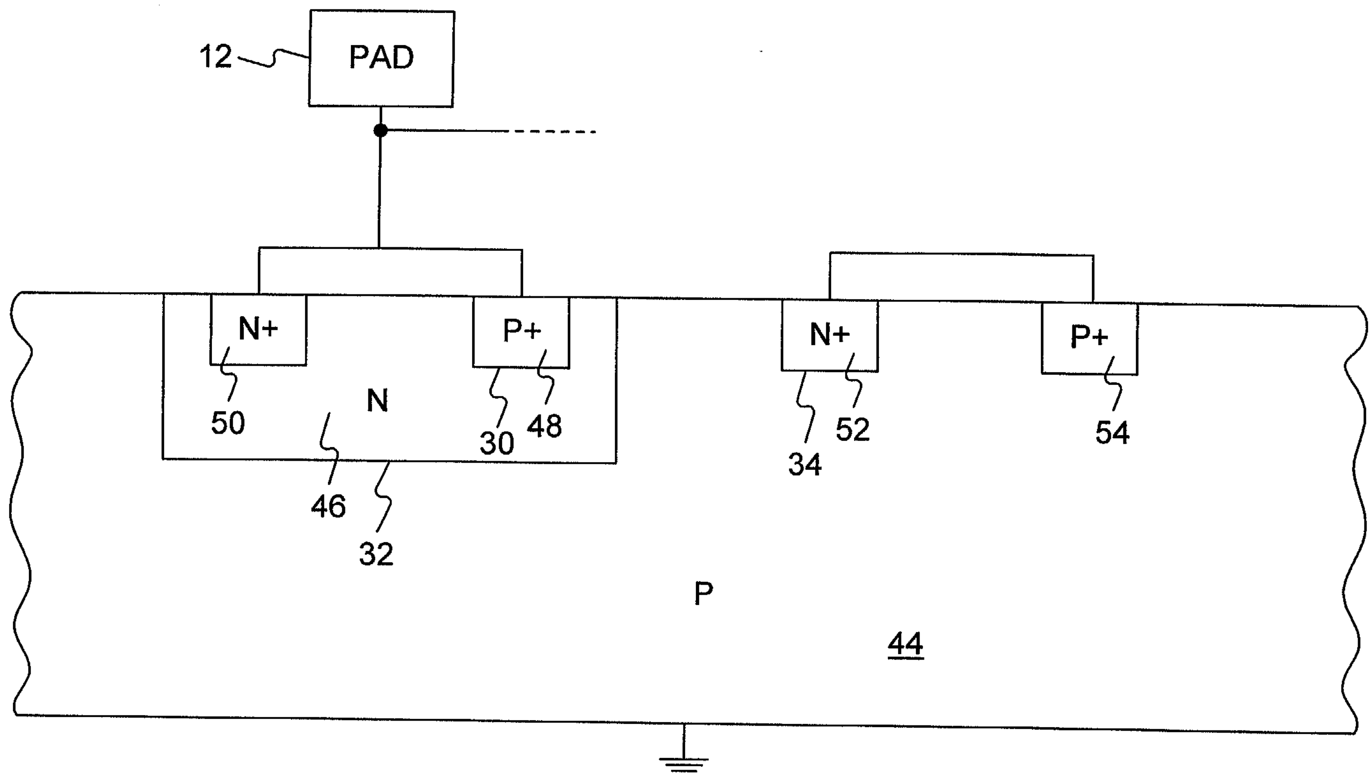

FIG. 1
(Prior Art)

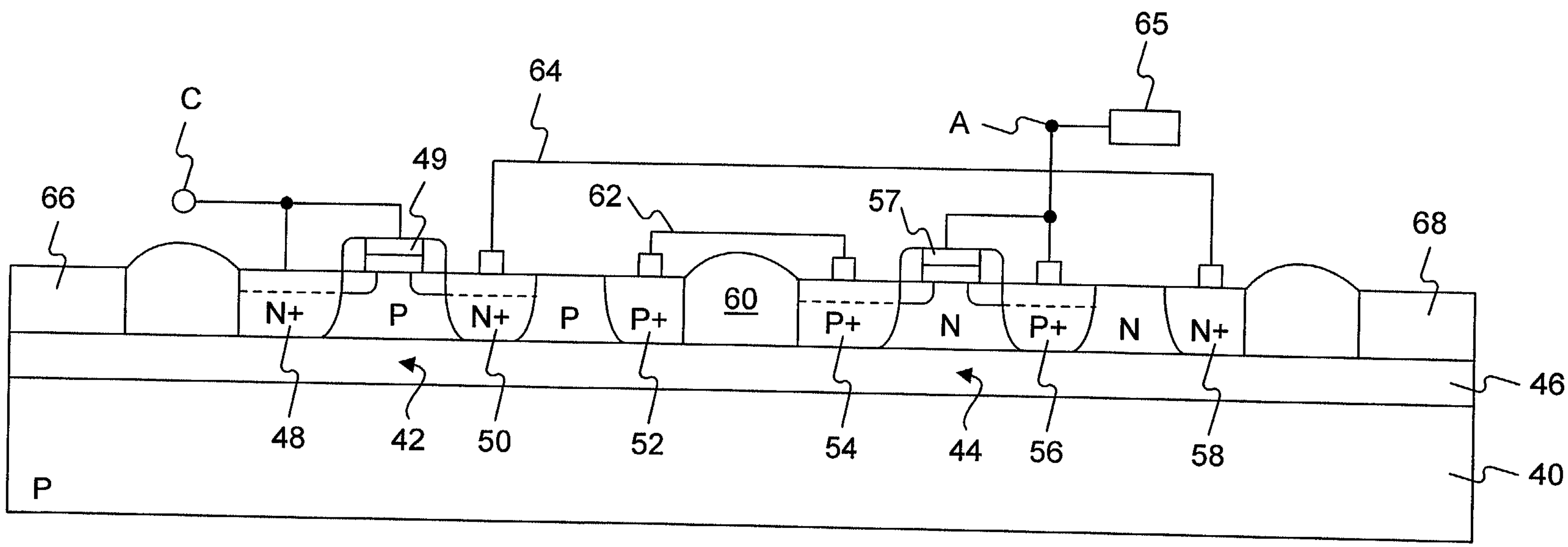

FIG. 2
(Prior Art)

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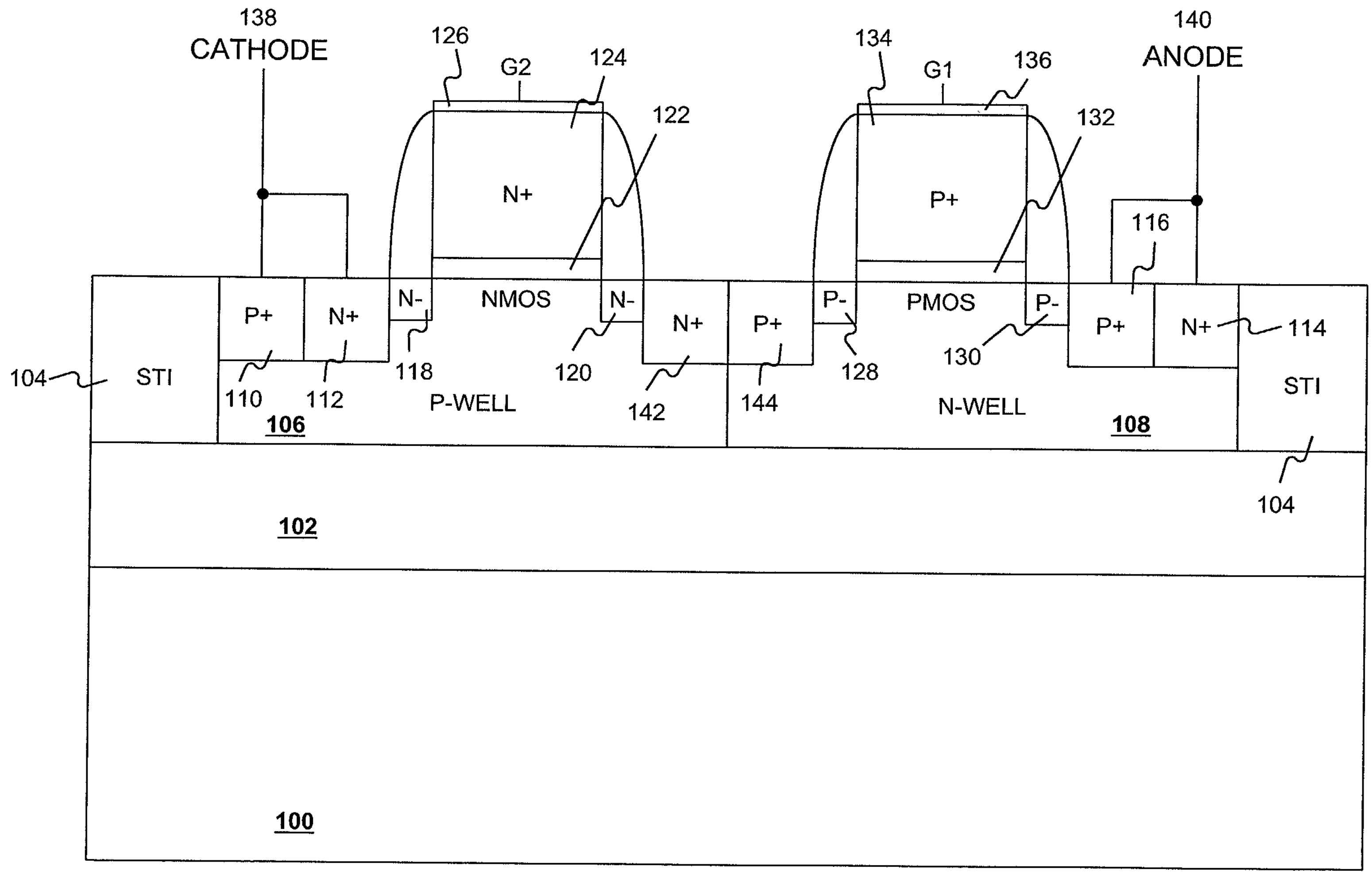

FIG. 3

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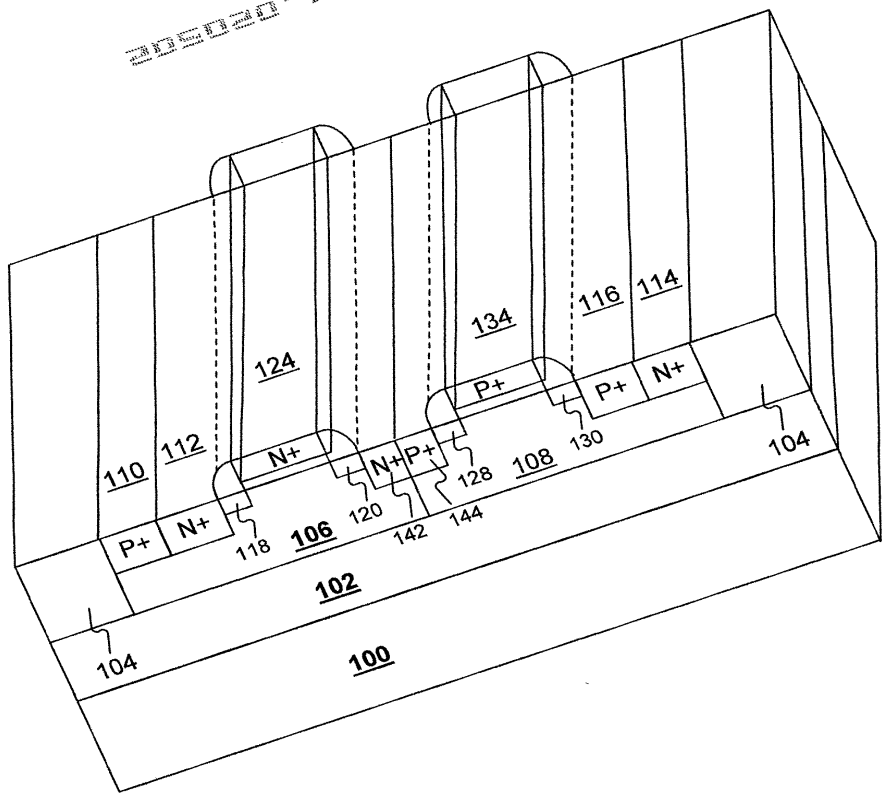
110
112
124
134
116
114
P+
N+
N+
P+
P+
N+
108
130
104
128
118
106
120
142
144
102
104
100

FIG. 4

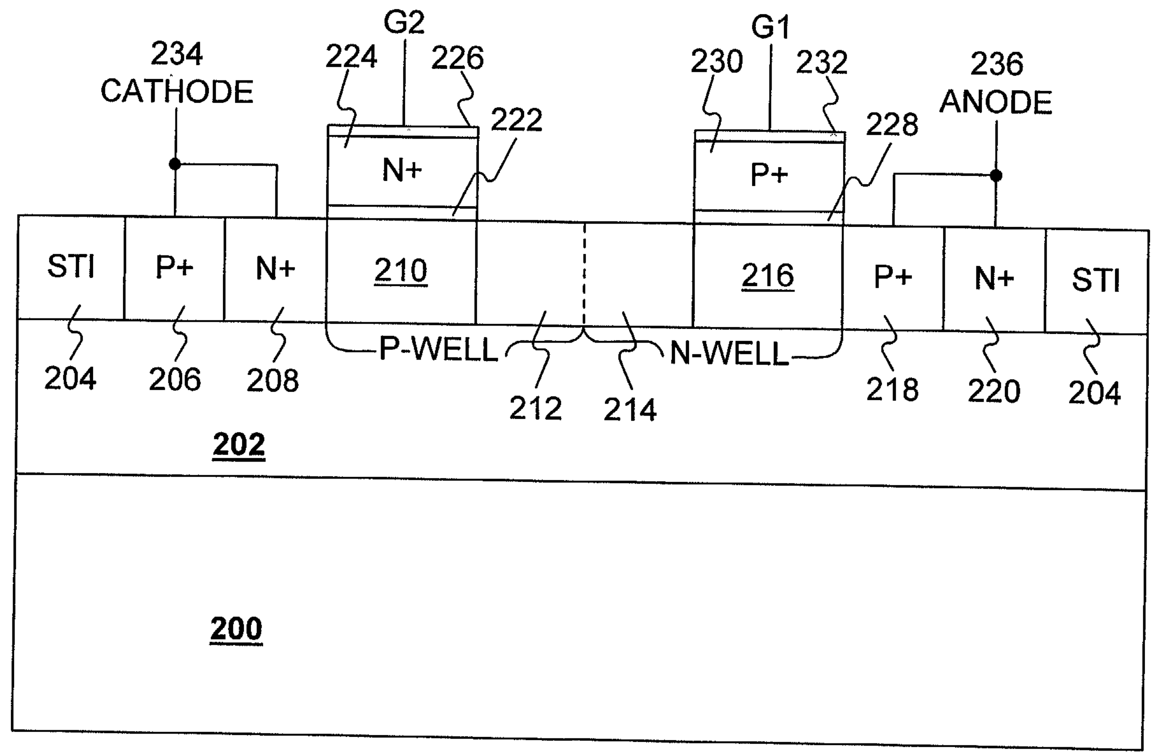
G2
234
CATHODE
224
226
222
G1
230
232
228
236
ANODE
N+
P+
STI
P+
N+
210
216
P+
N+
STI
204
206
208
P-WELL
212
214
N-WELL
218
220
204
202
200

FIG. 5

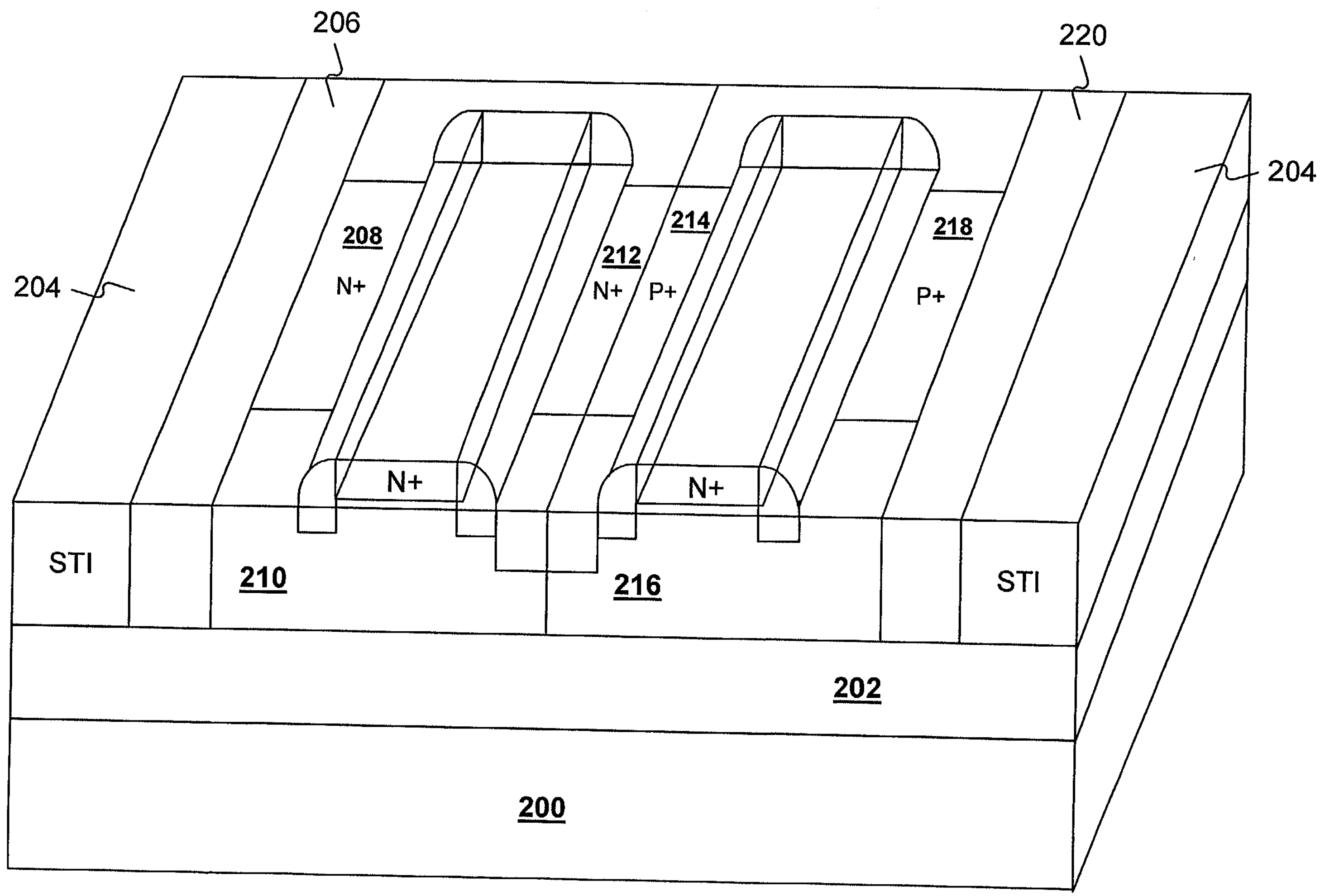

FIG. 6

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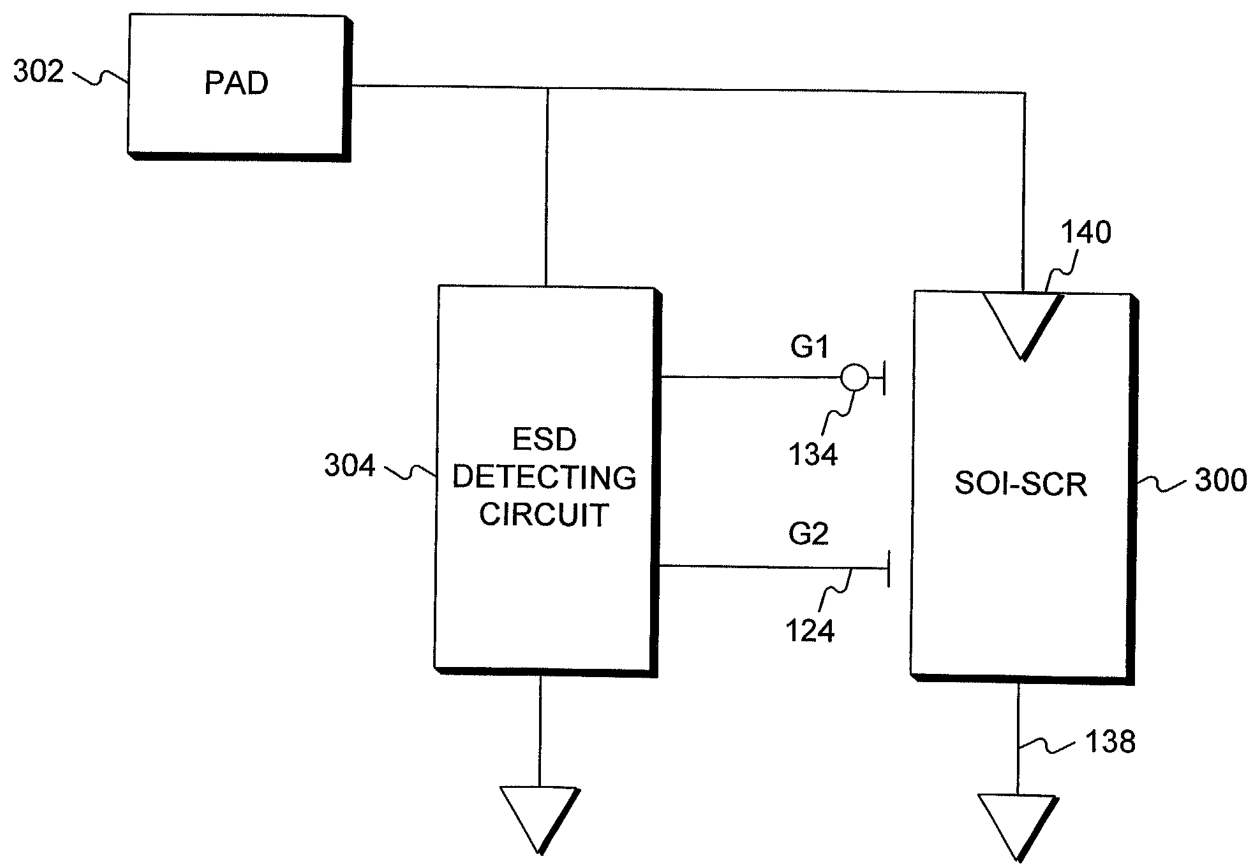
302
PAD
304
ESD
DETECTING
CIRCUIT
G1
134
G2
124
140
SOI-SCR
300
138

FIG. 7A

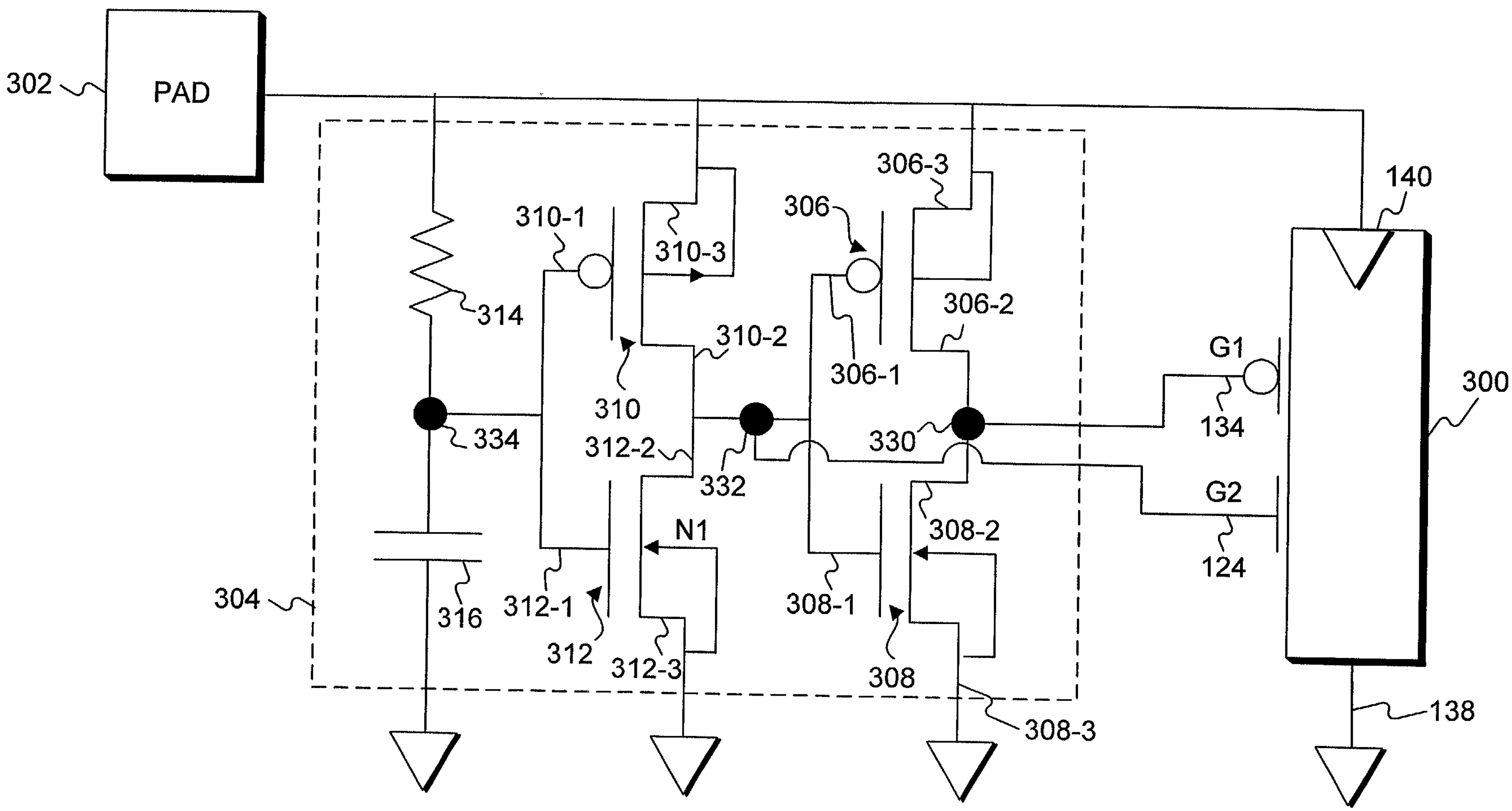

FIG. 7B

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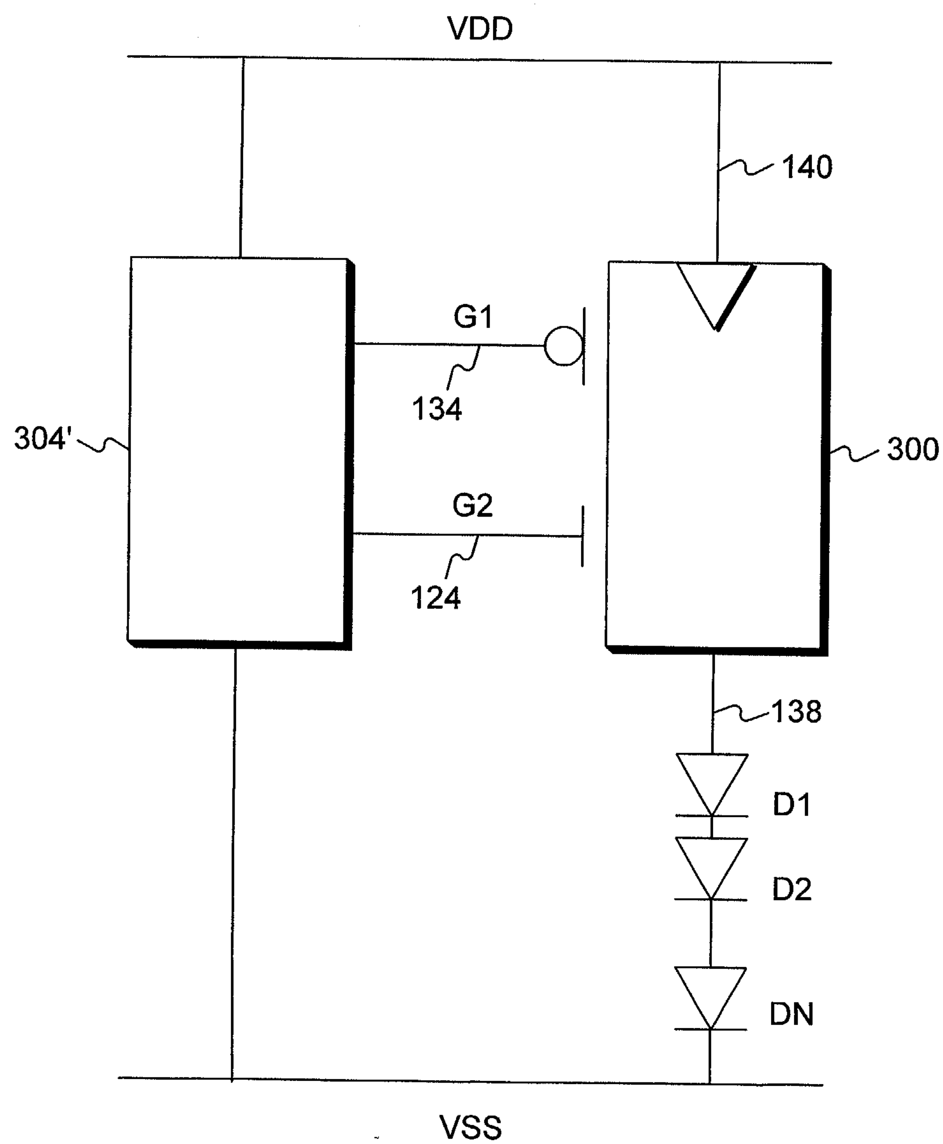

FIG. 8A

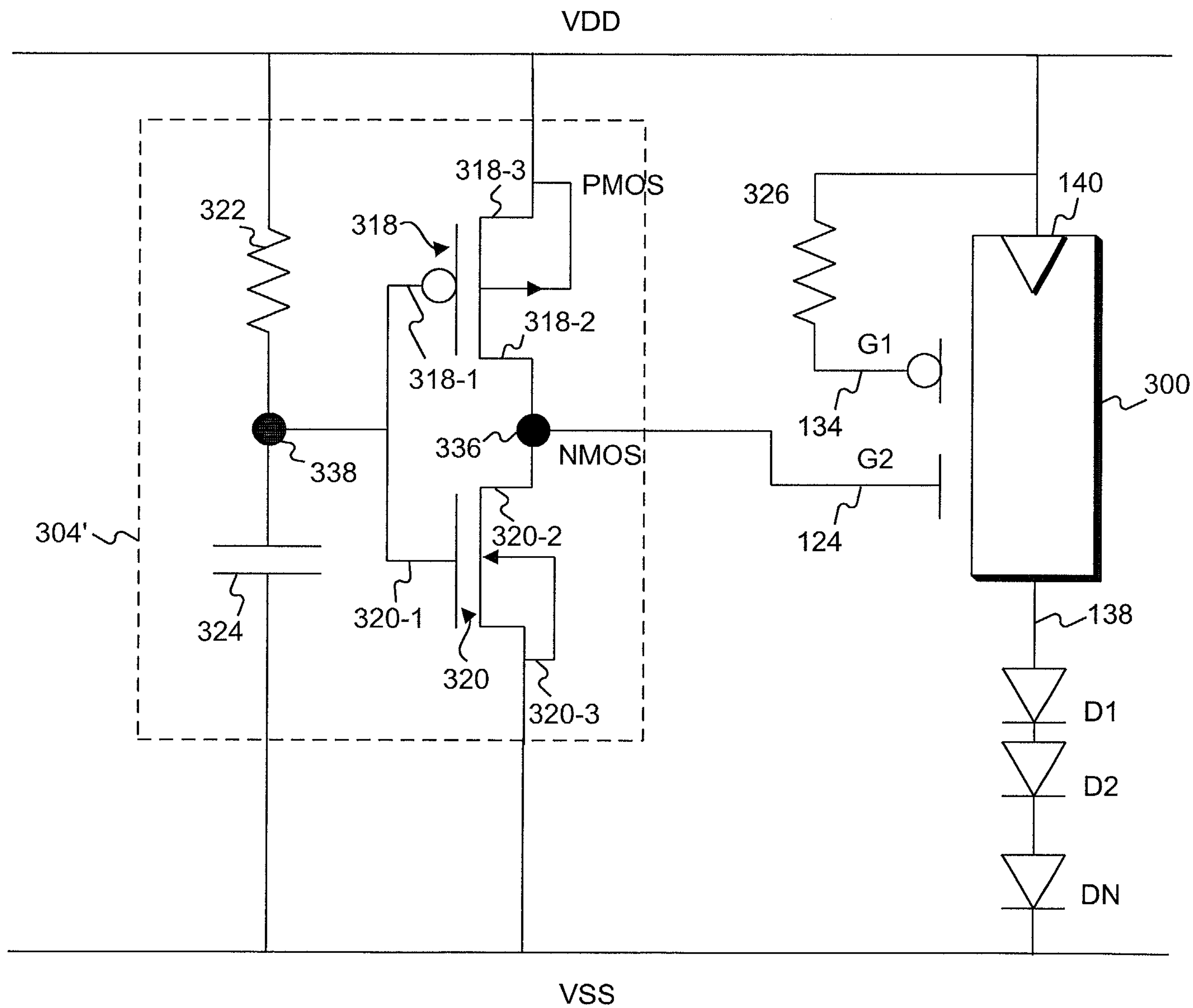

FIG. 8B